2010-12-01 Wednesday Morning Notes

Wednesday, December 01, 2010 7:29 AM

Stacking & Transfers

- Average Stacking
 - 25.5mA/hr
 - 19.8 pbar/MP
 - o 8.01 Tp on target
- Transfers
 - Unstacked 453E10 in 57 transfers over 18 sets with an average efficiency of 95.3%

Pbar Access (http://www-bd.fnal.gov/cgi-mach/machlog.pl?nb=pbar10&action=view&page=309 &anchor=102053&hilite=10:20:53-)

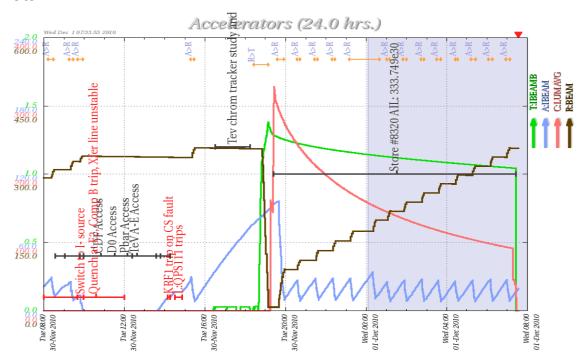
- LCW Leaks repaired (The first is a fast dripper on the top wall side black hose on A4Q3. The seconds is a slow dripper on the aisle side bottom black hose on A1B8).
- the two spare "Pulse PS Power Modules" for the Septum power supplies, were checked out in D:ESEP. Both modules ran ok with no overheating for 20 minutes, and they will be stored in AP10, behind Kicker D:EKIK. Worklist entry # 12632 is complete. (B. Wisner, C. Bair)
- We made a small orbit correction with A:HT104 to take out some of the orbit distortion that I noticed earlier. On the left is the starting difference orbit and on the right is the ending difference orbit
- Debuncher momentum double notch filter.
- Stochastic cooling experts are also checking on the core 4-8 dp laser receiver diode

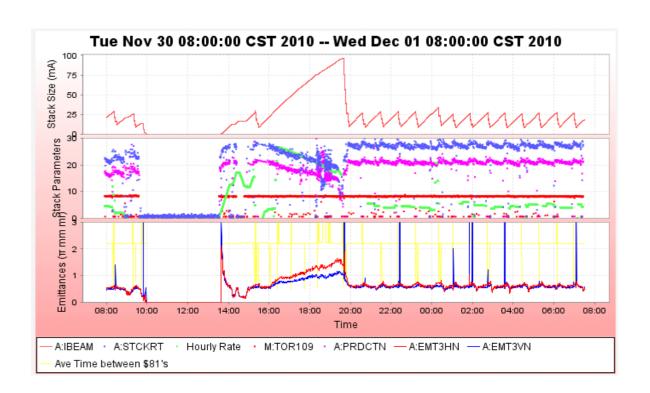
Numbers

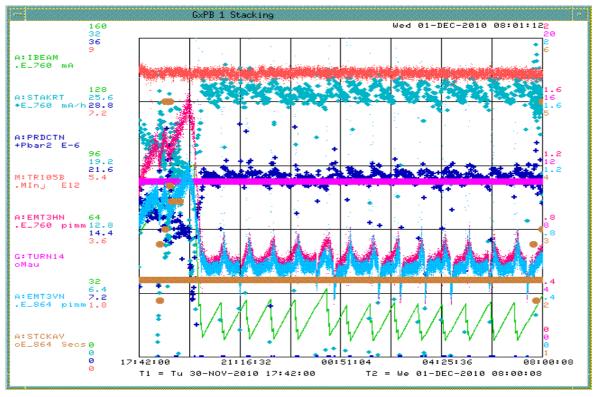
- Stacking
 - Pbars stacked: 458.25 E10Time stacking: 20.21 Hr
 - Average stacking rate: 22.67 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 32233
 - Number of pulses with beam: 29925
 - Fraction of up pulses was: 92.84%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 18.76 Hr
 - Possible average stacking rate: 24.42 E10/Hr
 - Could have stacked: 493.59 E10/Hr
- Recycler Transfers
 - o Pbars sent to the Recycler: 442.11 E10
 - Number of transfers : 56
 - Number of transfer sets: 18
 - Average Number of transfer per set: 3.11
 - o Time taken to shoot including reverse proton tuneup: 00.20 Hr
 - o Transfer efficiency: 95.06%

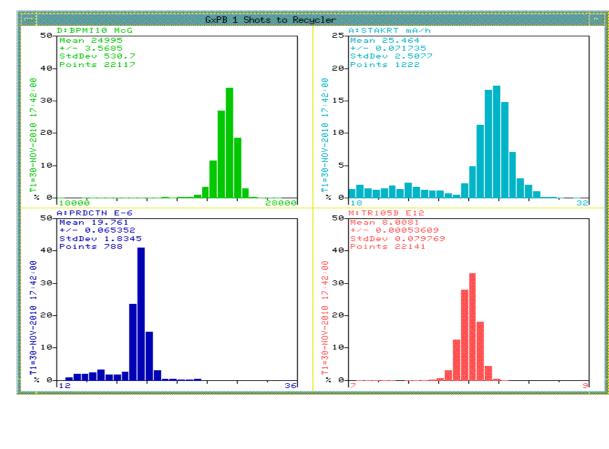
- Other Info
 - o Average POT: 8.02 E12
 - o Average production: 19.09 pbars/E6 protons

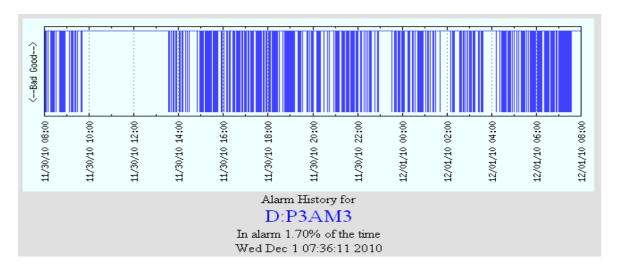
Plots



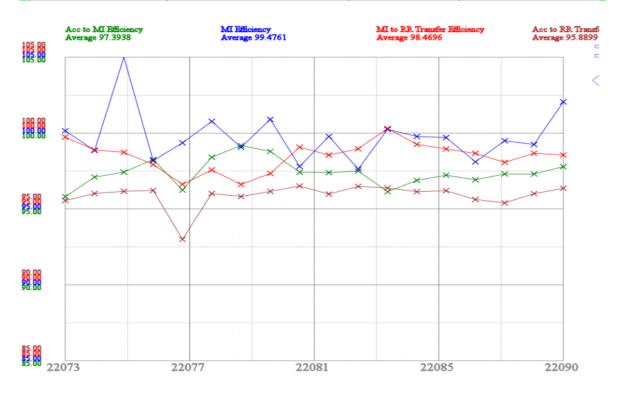








Device	Alarm Value	Present Info	Alarm Stat Now								
DIP3AM3			Good								
MASK	000000000000000000000000000000000000000										
NOMINAL	000000000000000000000000000000000000000										
NOW	00000000000000000000000000000000111										
save properties	PRBSTS PRDABL										
Bit #	Description RED = bits in alarm (when alarm posted)	Now Text	Now Binary								
0	Amp Voltage Current Mon	On	1								
1	Amp Voltage Monitor	Normal	1								
2	Amp Current Monitor	Normal	1								



Column 1 Number _0_Pbar Transfe r Shot #	Column 4 Number_3_Transfer Time		21 Number _20_A:1 BEAMB sampled on \$91	22	Unstacked (mA)	23 Number _22_R: BEAMS (R:BEA ME0[0])	Column 24 Number _23_R: BEAM (R:BEA ME0[1]) post zfer, E10	Stashed		Acc to MI Eff	Acc to MI2 Eff	Acc to MI * Acc to MI2 Efficiency	Tran sfers	Sets	Column 5 Number_ 4_Acc Horizont al Emittanc e	6 Number _5_Acc Yertical Emittan	Column 8 Number _7_Acc Longitu dinal Emittan ce
	Totals =>				453.21			432.18	95.36%	97.29%	96.77%	94.15%	57	18	5.9139	5.2895	1.9752
	Daily Average =>				453.21			432.18					57	18			
22090	Wednesday, December 01, 2010	6:59	27.26	8.34	21.56	337.18	357.60	20.78	96.39%	98.02%	99.49%	97.52%	3	1	6.085	5.588	1.984
22089	Wednesday, December 01, 2010	6:10	27.79	8.45	22.02	317.27	338.17	21.19	96.24%	97.35%	96.38%	93.82%	3	1	6.003	5.229	1.996
22088	Wednesday, December 01, 2010	5:17	26.94	8.14	21.47	297.77	318.04	20.52	95.55%	97.08%	96.93%	94.10%	3	1	6.331	5.457	1.983
22087	Wednesday, December 01, 2010	4:26	26.33	8.31	20.73	278.68	298.31	19.81	95.56%	96.89%	95.37%	92.41%	3	1	6.143	5.678	2.011
22086	Wednesday, December 01, 2010	3:36	27.00	8.29	21.43	258.75	279.18	20.63	96.27%	97.18%	96.88%	94.15%	3	1	6.138	5.533	2.018
22085	Wednesday, December 01, 2010	2:45	27.66	8.64	21.67	238.57	259.23	20.85	96.18%	97.31%	97.07%	94.45%	3	1	6.146	5.455	2.001
22084	Wednesday, December 01, 2010	1:53	26.85	8.22	21.37	218.55	238.98	20.60	96.39%	96.48%	96.50%	93.10%	3	1	6.084	5.264	1.977
22083	Wednesday, December 01, 2010	1:03	26.06	7.97	20.75	199.16	218.98	20.04	96.62%	97.65%	95.03%	92.80%	3	1	6.139	5.427	2.029
22082	Wednesday, December 01, 2010	0:21	34.47	10.89	26.25	174.58	199.50	25.19	95.97%	97.32%	96.95%	94.35%	3	1	6.684	5.449	2.003
22081	Tuesday, November 30, 2010	23:13	28.85	8.75	22.67	153.25	174.95	21.86	96.41%	97.34%	95.29%	92.76%	3	_	6.187	5.419	2.011
22080	Tuesday, November 30, 2010	22:21	28.94	9.15	22.49	132.09	153.52	21.59	96.00%	98.61%	99.18%	97.81%	3	1	6.196	5.464	2.002
22079	Tuesday, November 30, 2010	21:30	28.66	9.13	22.22	111.10	132.31	21.31	95.89%	99.13%	98.21%	97.36%	3	_	5.984	5.267	1.994
22078	Tuesday, November 30, 2010	20:36			21.46		111.29	20.64	96.18%	98.47%	98.98%	97.47%	3	1	6.175	5.412	2.014
22077	Tuesday, November 30, 2010	19:39		9.57	91.78	_	91.22	84.76	92.34%	96.09%	95.08%	91.35%	6	1	9.194	7.213	1.71
22076	Tuesday, November 30, 2010	15:22	28.50	_	23.04	_	358.55	22.14		98.47%	97.00%	95.51%	3	_	6.055	5.427	1.96
22075	Tuesday, November 30, 2010	9:49		0.69	12.95		340.10	12.58		98.96%	102.35%	101.28%	3	_	0.582	2.692	1.773
22074	Tuesday, November 30, 2010	9:20	_	_	19.47	309.76	328.17	18.70		97.28%	96.65%	94.02%	3	_	4.782	4.45	2.04
22073	Tuesday, November 30, 2010	8:23	29.30	11.67	19.89	291.69	310.45	19.00	95.55%	95.91%	96.08%	92.15%	3	1	5.543	4.787	2.047

